



"New Zealand Star"

Harland + Wolff

933/4

Bulkhead + Framing profile

(2)

IBEX

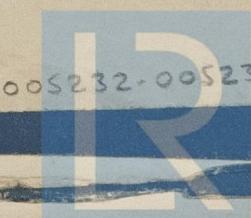
933
"Imperial Star"

'IMPERIAL STAR'  Bel 11436

PLANS TRANSFERRED 'NEW ZEALAND STAR'

TO SISTER VESSEL

934
"New Zealand Star"

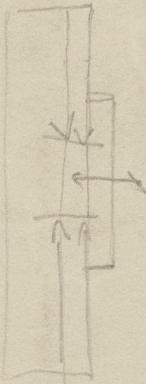


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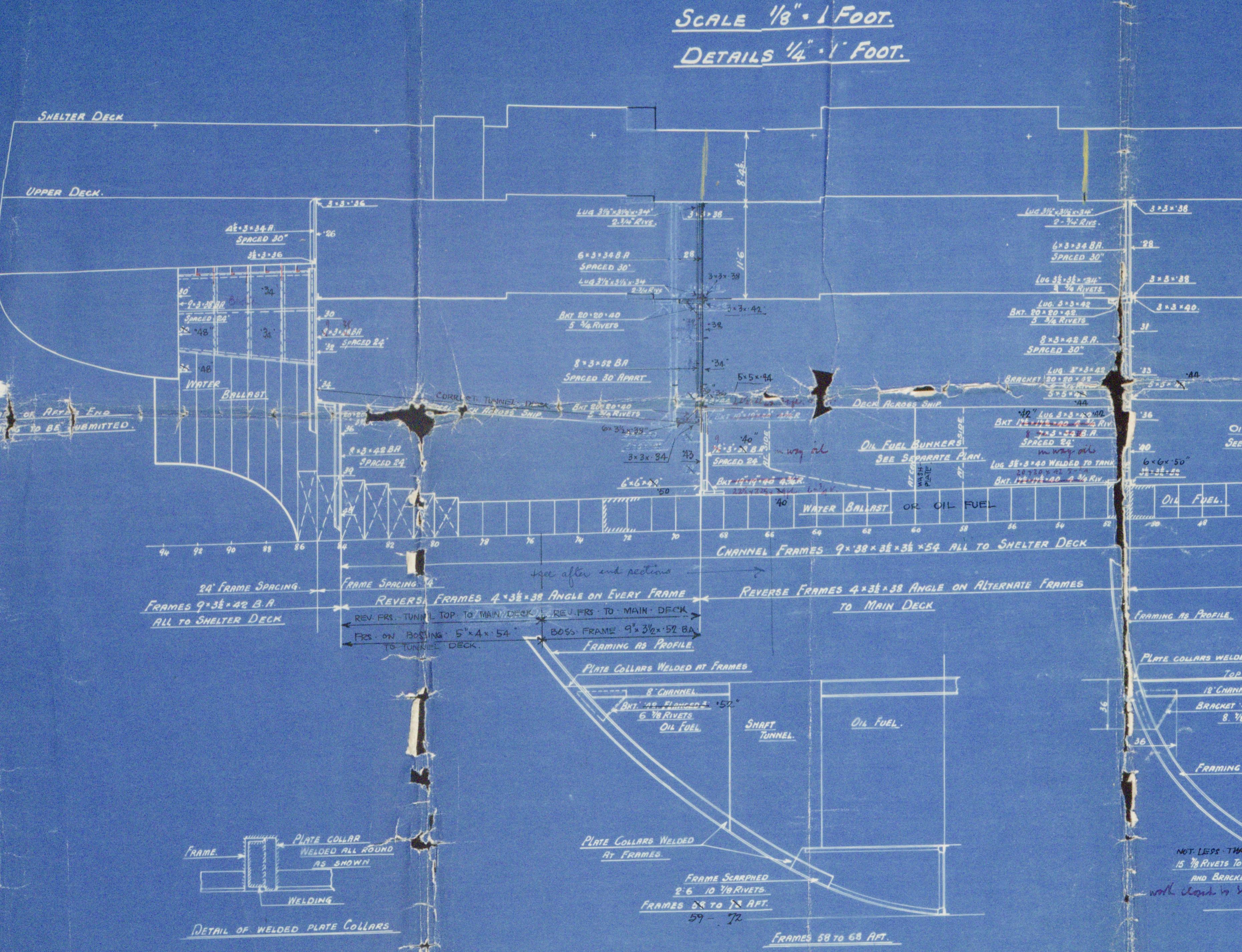
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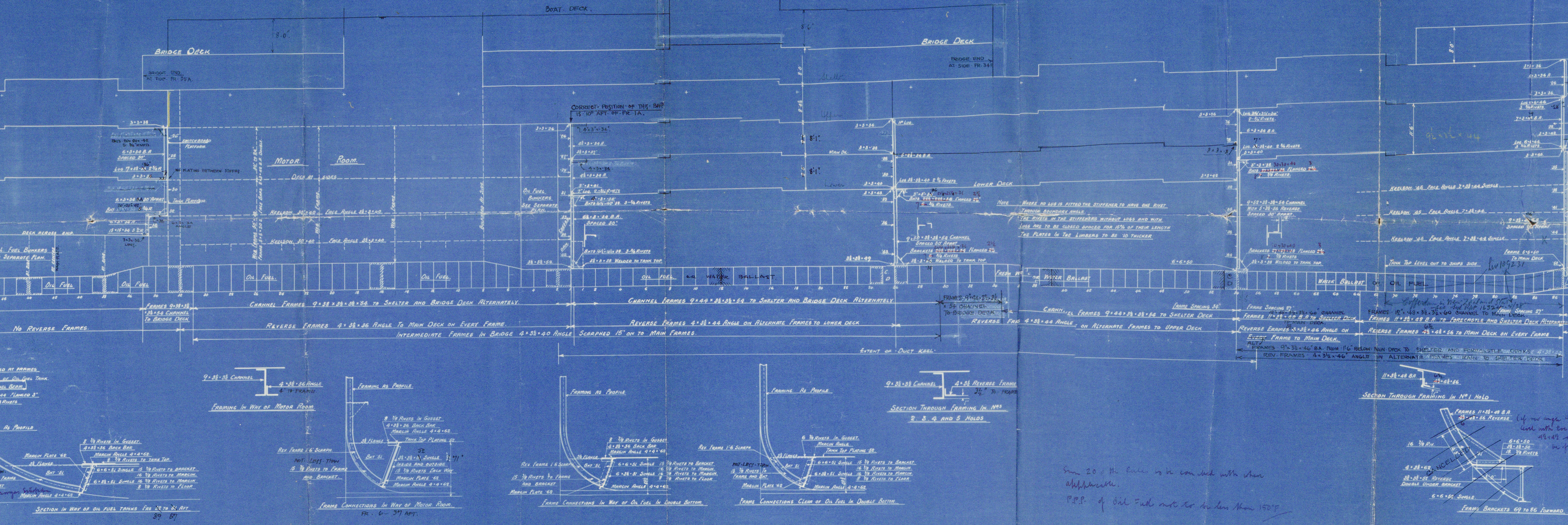
61233

Nos 933-934
FRAMING AND BULKHEAD PROFILE

SCALE $\frac{1}{8}$ " = 1 FOOT.
DETAILS $\frac{1}{4}$ " = 1 FOOT.



NOTE: MODIFICATIONS IN BLACK
ARE FOR SHIP AS BUILT.



BOAT DECK

BRIDGE DECK

MOTOR ROOM

OIL FUEL TANKS

WATER BALLAST

UPPER DECK

SHelter DECK

Forecastle DECK

Bridge END AT SIDE FR 341

Upper DECK

Shelter DECK

Hull

Tunnel

Hull</div

~~442~~

Holland & Wolff

93314 Rep No Bel 11436.

— M/S IMPERIAL STAR
M/S NEW ZEALAND STAR

Deck houses PLANS TRANSFERRED
TO SISTER VESSEL

42

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Nos 933 - 934.

BRIDGE DECKHOUSE.

SCALE 1/8 = ONE FOOT

MATERIAL IN 1/8 BOOK PAGES

CHARGE NO 114.

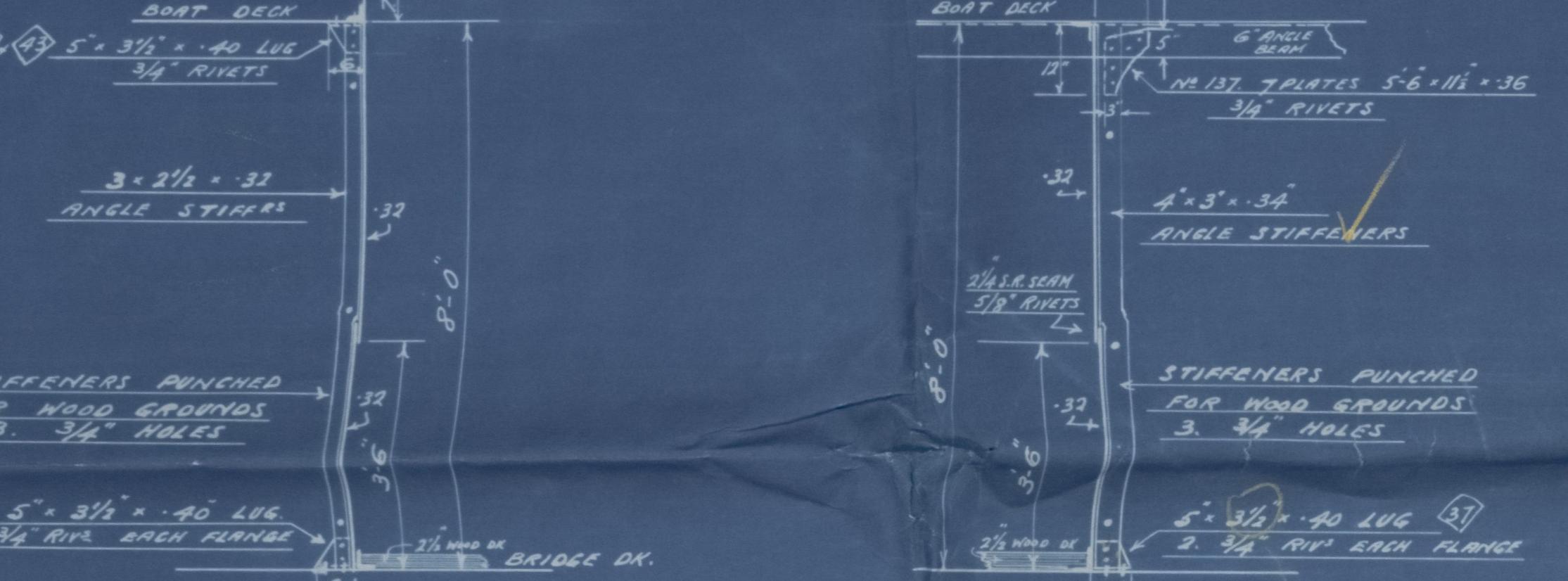
DETAIL SHOWING CONNECTION OF
DECKHOUSE TO 6" x 3" x 36" ANGLE BEAMS

SCALE 3" = ONE FOOT

See A12913

3-3-30
3-3-30
WELDED
.32 PLATING

6" x 3" x 36 ANGLE BEAMS
CARRIED 9" THRO
SIDE OF DECKHOUSE (AT BOAT DECKS)
WHERE MARKED *



SECTION THRU' FORE END OF HOUSE

3. FRAME FORWARD

SECTION THRU' DECKHOUSE SIDE

WEBS AT 21 FR AFT

STIFFENERS PUNCHED FOR WOOD GRANADES 3 3/8 HOLES

ANGLE STIFFENERS

3-3-32

ANGLE STIFFENERS

3-3-30

ANGLE STIFFENERS



"New Zealand Star"

Harland & Wolff

933 | 4

Decks.

1 B 57

(5)

933/
Imperial Star

IMPERIAL STAR' Bel 114 36
'NEW ZEALAND STAR.
PLANS TRANSFERRED
TO SISTER VESSEL

934

"New Zealand Star"

1.19
2.5/2
9.1
5.15
6.5
9.5
2.5
39.6 H
9.81
3.01
2.6
1.78

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NOS 933-4.

515'-0" X 70'-0" X 45'-4"

PLAN OF DECKS.

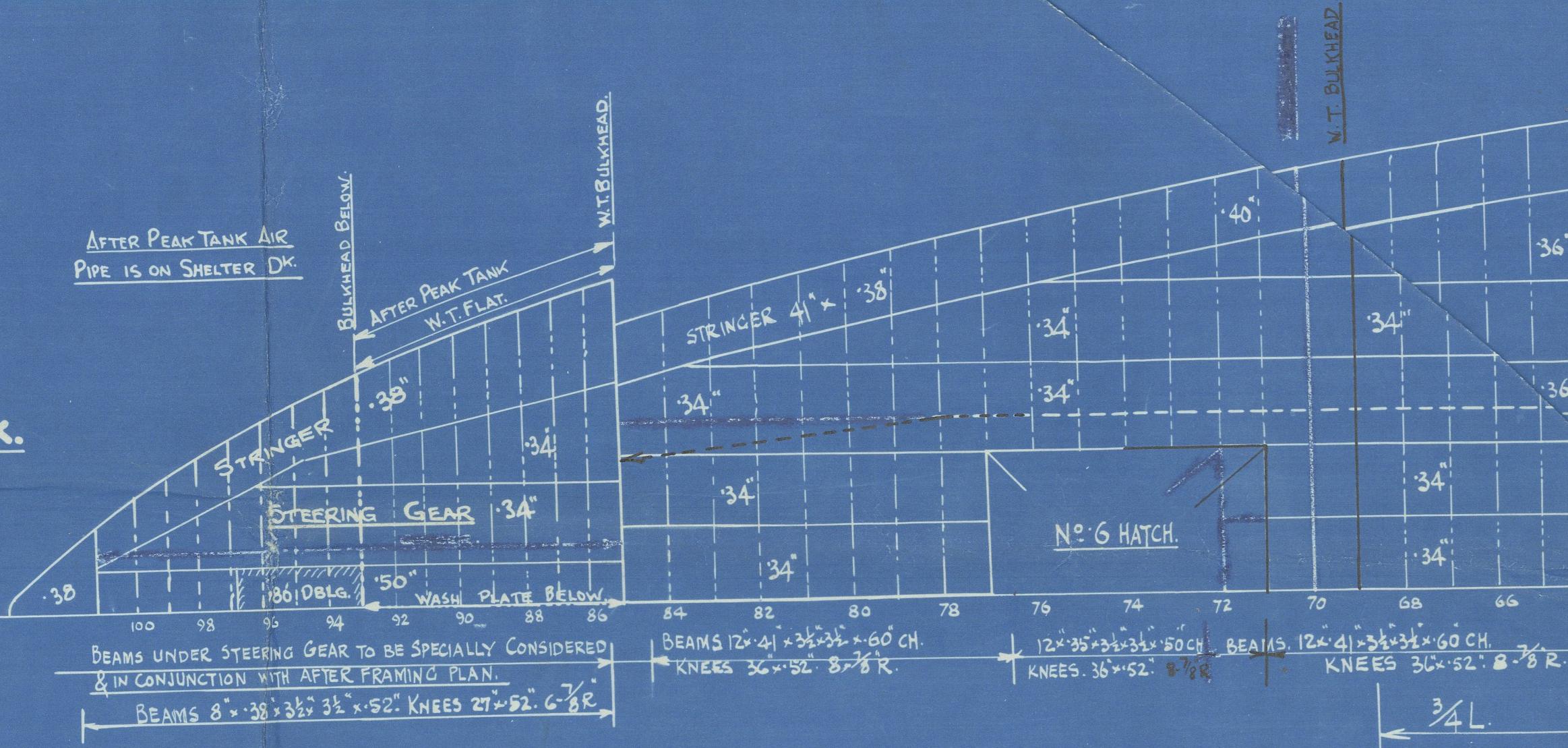
SCALE 1/4 INCH = 1 FOOT.

NB MODIFICATIONS IN BLACK ARE FOR SHIP AS BUILT

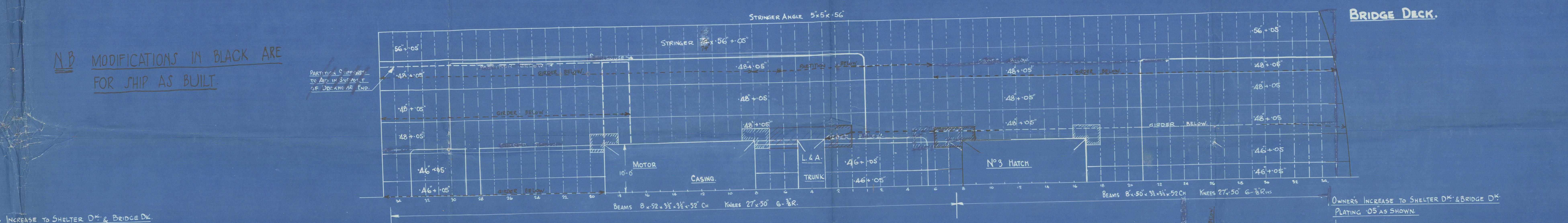
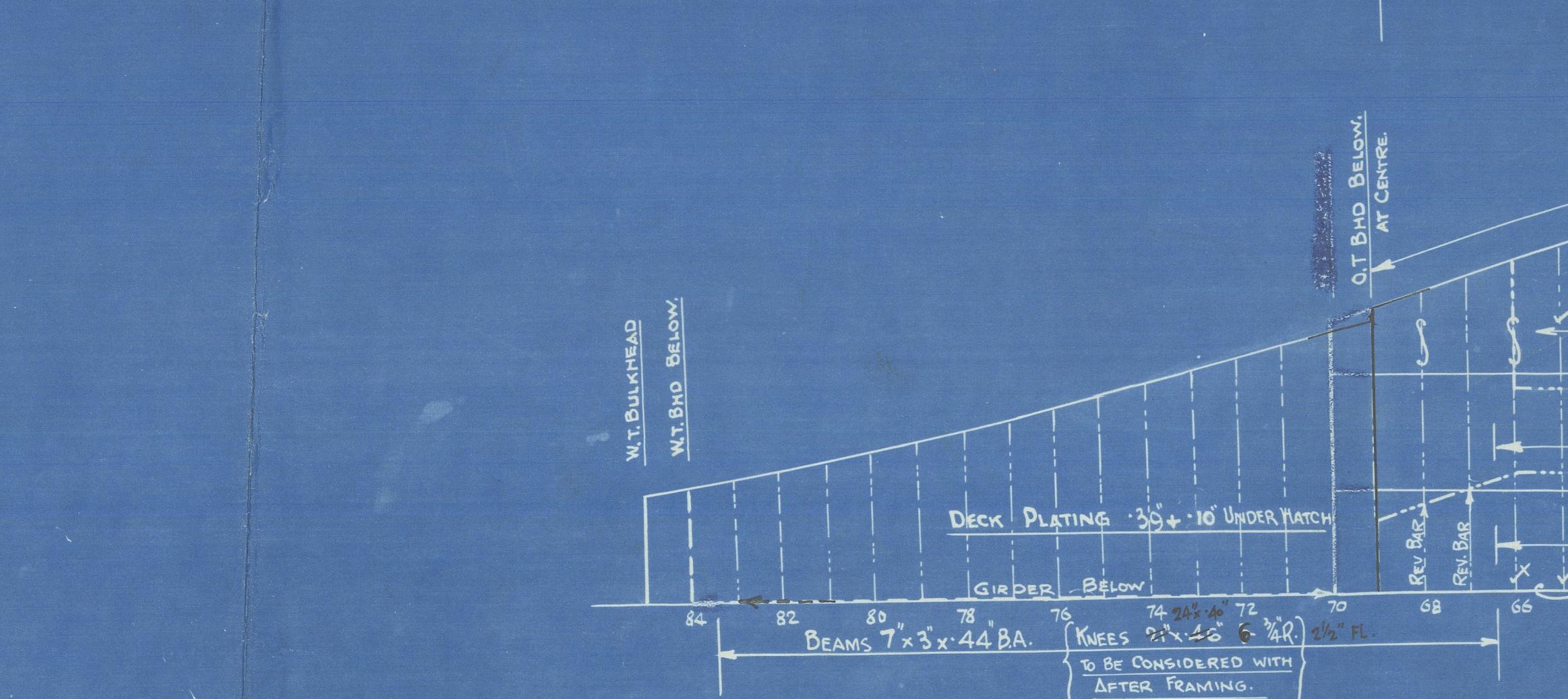
SHELTER DECK.



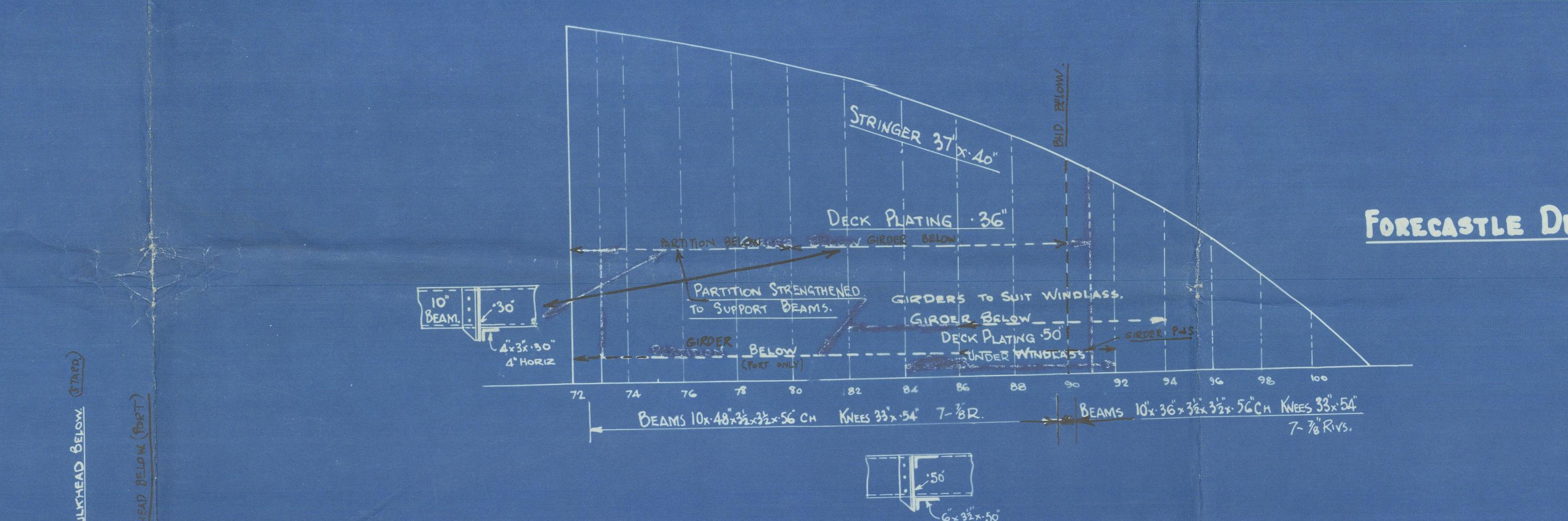
UPPER DECK.



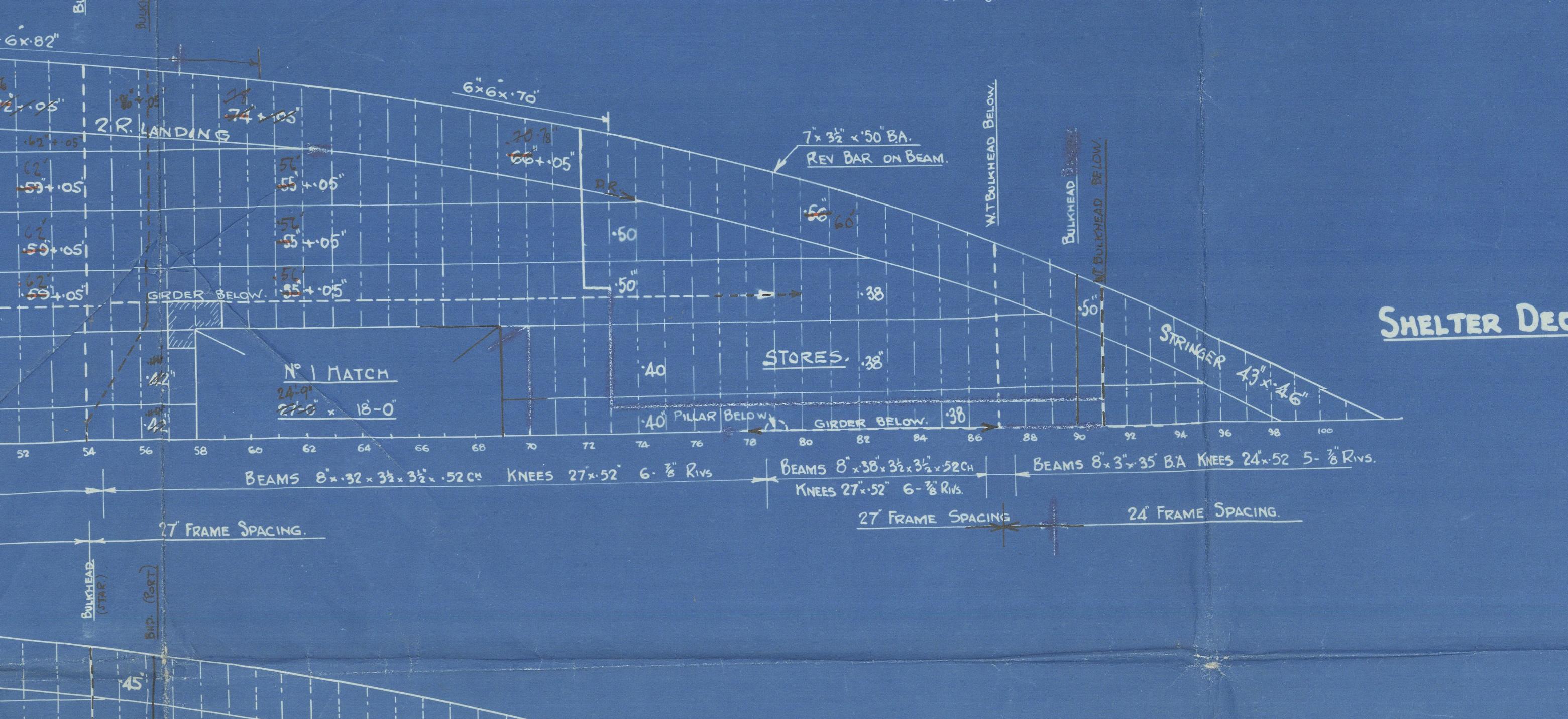
MAIN DECK.



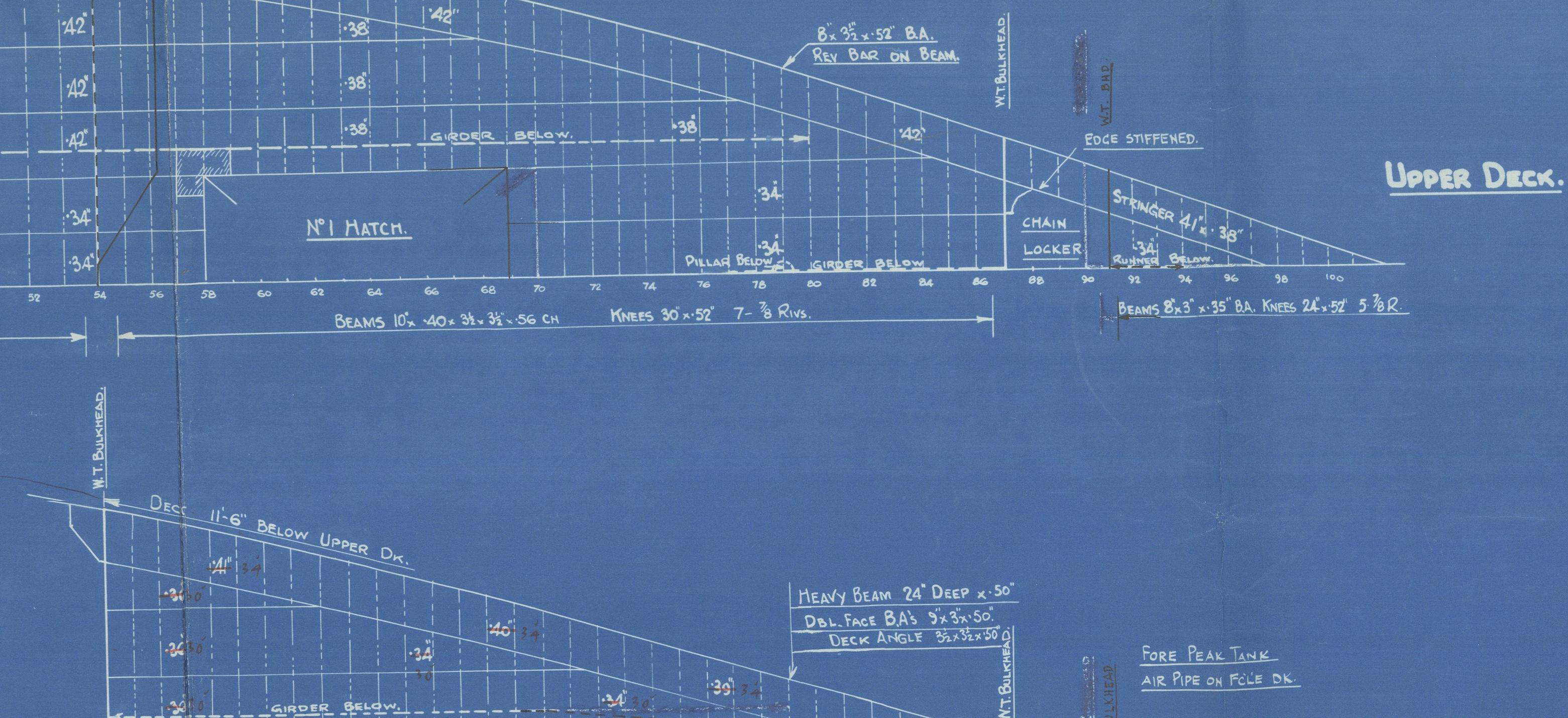
BRIDGE DECK.



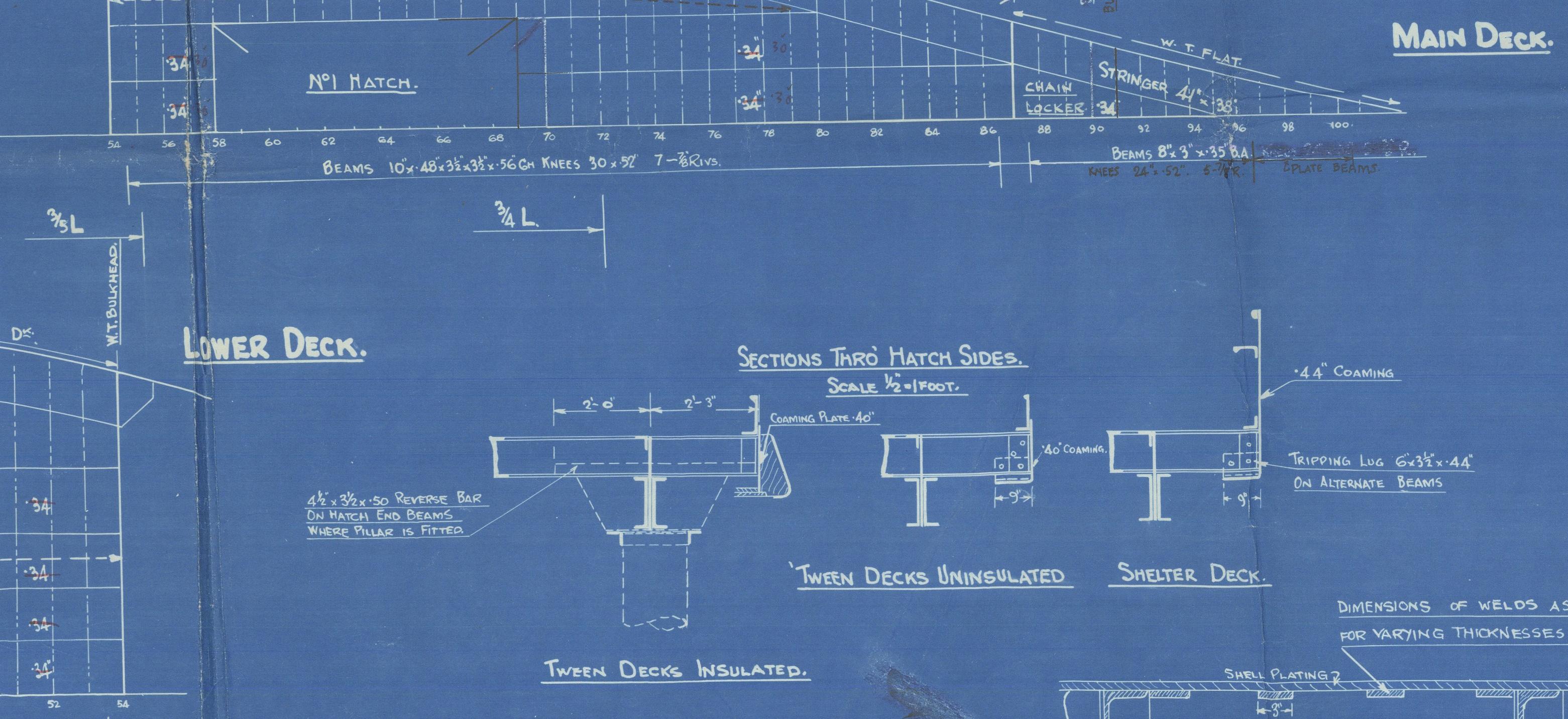
FORECASTLE DECK.



SHELTER DECK.



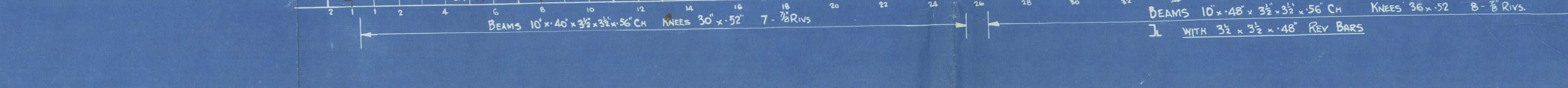
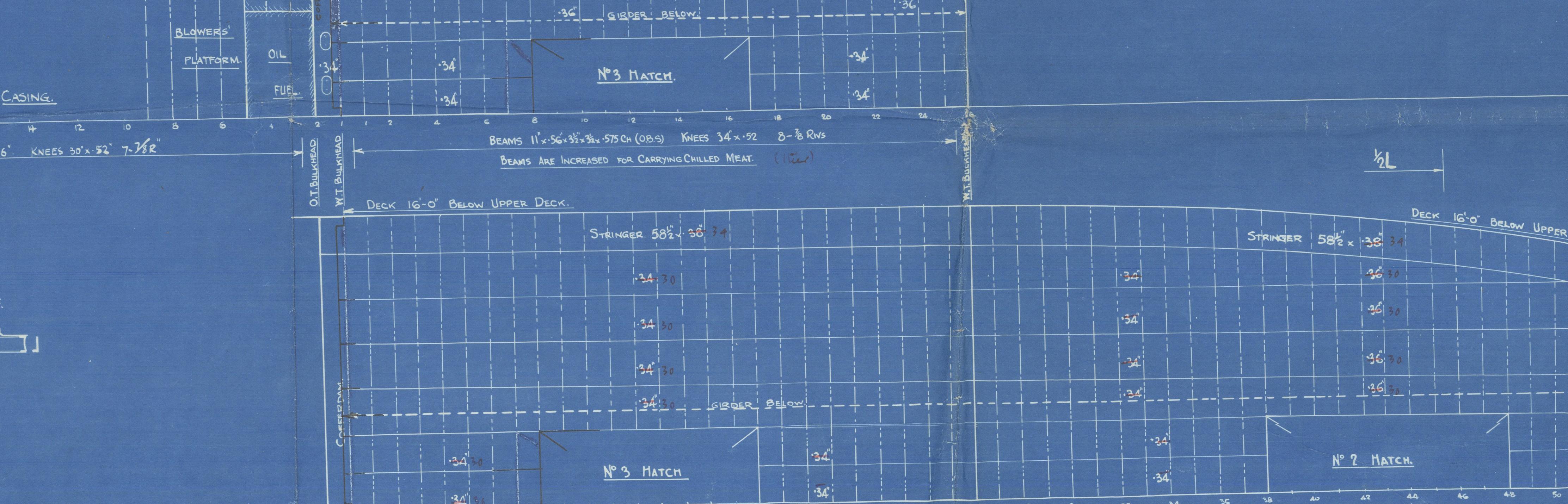
UPPER DECK.



MAIN DECK.



LOWER DECK.



TWEEN DECKS.

SHIELDED DECK.

MAIN DECK.

UPPER DECK.

BRIDGE DECK.

FORECASTLE DECK.

SHELTER DECK.

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SHELTER DECK.

MAIN DECK.

UPPER DECK.

BRIDGE DECK.

<p

933 - "IMPERIAL STAR"

934 - "NEW ZEALAND STAR"

Harland + Wolff

933/4

Midship Section

①

'IMPERIAL STAR' B.C. 11436
'NEW ZEALAND STAR'

PLANS TRANSFERRED
TO SISTER VESSEL



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Nos 933 & 934.

MIDSHIP SECTION.

SCALE $\frac{1}{2}$ " = ONE FOOT.

DIMENSIONS.- 515'-0" B.P. x 70'-0" MLD. x 43'-4½" MLD. TO UPPER DECK (SHELTER DECK).

To CLASS 100 A.I. WITH FREEBOARD.

DRAFT. CORRESPONDS TO A COMPLETE SUPERSTRUCTURE VESSEL HAVING A TONNAGE OPENING.

<u>NUMERALS</u>		
D	$(43 - 4\frac{1}{2} - 8' - 4\frac{1}{2}'' + 8' - 0'')$	43.00.
L x D	(515×43.00)	22145.
L x (B+D)	$515 \times (70 + 43)$	58195.
L/D	$\cancel{515} / \cancel{43} - 4\frac{1}{2}'' \text{ & } \cancel{515} / \cancel{51} - 4\frac{1}{2}''$	11.87 & 10.83.
d		14.96.

Harland & Wolff

933/4

Stem frame & boss arms.

(6)

'IMPERIAL STAR'
'NEW ZEALAND STAR'

PLANS TRANSFERRED
TO SISTER VESSEL

79 C.F.

30m

2) 19/6
9-4

2) 11-6

26' 3



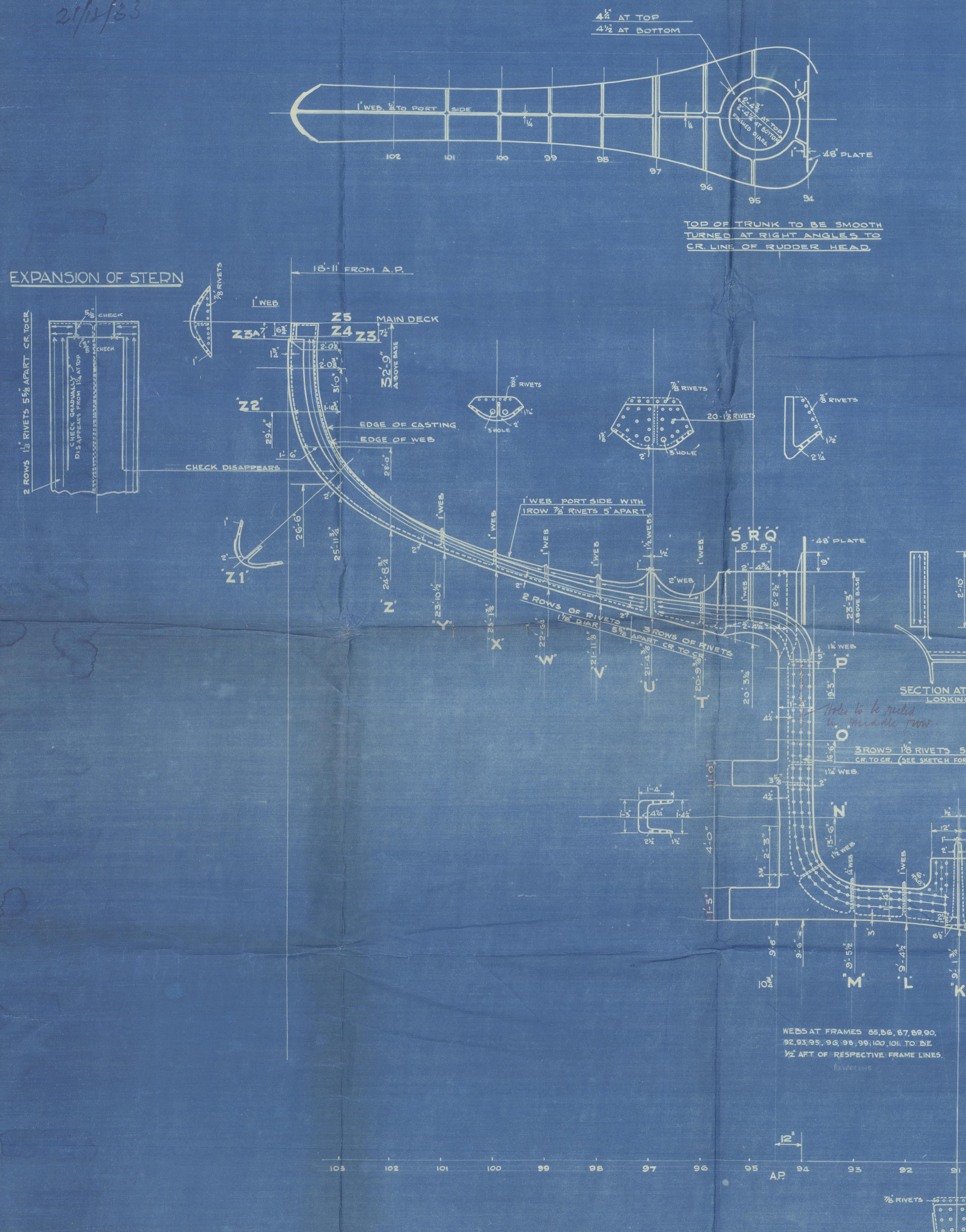
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21/1/63

NOS 933 & 934

STERNFRAME & BOSS ARMS

SCALE $\frac{1}{2}$ = 1FOOTDIA OF TAIL SHAFT - $17\frac{3}{4}$ 

NOTES

HOLDS TO BE DRILLED $\frac{1}{2}$ " LARGER THAN DIAM. OF RIVET SHOWN.
GUDGEONS BORED FOR PINTLES & LIGNUM VITE BUSHING.

MATERIAL

STERNFRAME & BOSS ARMS
PINTLES
GUDGEONS BORED FOR PINTLES & LIGNUM VITE BUSHING.

PARTICLES OF SHATING

WEIGHT OF $\frac{4}{5}$ OF SHAFT AT 15' 6" AFT OF FR. 88.
HALF BREADTH TO $\frac{4}{5}$ OF PROPELLER TIPS (6'-0" FWD OF A.P.)
HEIGHT TO $\frac{4}{5}$ OF " " "
HALF BREADTH TO $\frac{4}{5}$ " "
RAKE PER FOOT DOWN FROM PROPELLER TIPS
RAKE " INBOARD "

2. REQUIREMENTS

3. PARTS TO BE MACHINED

4. SURFACES IN CONTACT AT COUPLINGS, FRAMES 88, 91, 96 AFT INSIDE OF RUDDER TRUNK

TOP "

BOLTED FLANGES OF BOSS BRACKET ON 4"

PINTLES

TOP OF GUDGEONS

HARD STEEL BEARING CUPS.

5. CHECKS

6. TOP & BOTTOM EDGES IN THE SAME VERTICAL PLANE

7. SECTION AT FR. 88

8. SECTION AT XX

9. SECTION 3 1/4" AFT OF FRAME 87

10. SECTION AT 3/4" AFT OF FRAME 87

11. SECTION AT 1/2" AFT OF FRAME 87

12. SECTION AT 1/4" AFT OF FRAME 87

13. SECTION AT 1/2" AFT OF FRAME 87

14. SECTION AT 1/4" AFT OF FRAME 87

15. SECTION AT 1/2" AFT OF FRAME 87

16. SECTION AT 1/4" AFT OF FRAME 87

17. SECTION AT 1/2" AFT OF FRAME 87

18. SECTION AT 1/4" AFT OF FRAME 87

19. SECTION AT 1/2" AFT OF FRAME 87

20. SECTION AT 1/4" AFT OF FRAME 87

21. SECTION AT 1/2" AFT OF FRAME 87

22. SECTION AT 1/4" AFT OF FRAME 87

23. SECTION AT 1/2" AFT OF FRAME 87

24. SECTION AT 1/4" AFT OF FRAME 87

25. SECTION AT 1/2" AFT OF FRAME 87

26. SECTION AT 1/4" AFT OF FRAME 87

27. SECTION AT 1/2" AFT OF FRAME 87

28. SECTION AT 1/4" AFT OF FRAME 87

29. SECTION AT 1/2" AFT OF FRAME 87

30. SECTION AT 1/4" AFT OF FRAME 87

31. SECTION AT 1/2" AFT OF FRAME 87

32. SECTION AT 1/4" AFT OF FRAME 87

33. SECTION AT 1/2" AFT OF FRAME 87

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117. SECTION AT 1/2" AFT OF FRAME 87

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133. SECTION AT 1/2" AFT OF FRAME 87

134. SECTION AT 1/4" AFT OF FRAME 87

135. SECTION AT 1/2" AFT OF FRAME 87

136. SECTION AT 1/4" AFT OF FRAME 87

933-4-9 - 95748

Stern Frame & Bosses

7.

SYDNEY STAR ~~Ni KENT~~
'IMPERIAL STAR'
'NEW ZEALAND STAR' * WS1009
'AUSTRALIA STAR' WS1010

PLANS TRANSFERRED
TO SISTER VESSEL



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Rudder Plan.



'IMPERIAL STAR'
'NEW ZEALAND STAR'
'AUSTRALIA STAR'

PLANS TRANSFERRED
TO SISTER VESSEL

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Nº 939
Nºs 933 & 934

RUDDER PLAN

SCALES $\frac{1}{2}$ & $\frac{1}{2}$ = 1 FOOT

CHARGE NO. 126

MATERIAL
RUDDER STOCK FORGED INGOT STEEL
RUDDER FRAME CAST MILD STEEL
STRIP AT AFT END FORGED STEEL
PINTLES FORGED STEEL
ALL TO LLOYD'S TESTS & REQUIREMENTS

PARTICULARS

TOTAL RUDDER AREA 235.58 FT.
RUDDER AREA AHEAD OF PINTLES 105.7 FT.
SPEED OF VESSEL 16 KNOTS
MAX. ANGLE OF HELM 40 DEGREES
AREA COEFFICIENT 0.825

235.58 FT.
105.7 FT.
16 KNOTS
40 DEGREES
0.825

HOLE TAPPED FOR
SLIDING EYES 5/8 INCHES PER INCH
5/8 DEEP (approx. 1.5 inches)

KEYWAY
STERN SIDE
SMOOTH TURNED
STOCK TURNED TO
BRITISH STANDARD DIMENSIONS

FORGED STEEL
STRIP
WELDED

75 x 1/2 to 2 1/2
FORGED STEEL
STRIP
WELDED

SECTION AT DD
5/8 PHOSPHOR BRONZE LINER
SHRUNK ON
DIAM. OF STOCK INCREASED
0.5" IN WAY OF LINER

3 SCREWED GUNMETAL
PLUG GROOVED FOR
REMOVING. STD. ONLY

1 RIVETS SPACED
5 APART CR TO CR
62 PLATE

LOCK TO PREVENT RUDDER
LIFTING SUPPLIED WITH
STERNFRAINE

1 RIVETS SPACED
5 APART CR TO CR
62 PLATE

1/2" DRILL
1/2" BASE

WELD

10.5' 5.0' 6.6'

1/2" DRAIN PLUG C
6.6"

1/2" DRAIN PLUG C

10.5' 5.0' 6.6'

1/2" DRAIN PLUG C

NOTE S
PLATED RANGLES SUPPLIED & FITTED BY
SHIP BUILDER.
COUPLING BOLTS & NUTS TOGETHER WITH
KEY FOR SCREWING UP, ALSO ACCESS PLATE &
1/2" BRONZE BEARING RING TO BE SUPPLIED
& FITTED COMPLETE BY CONTRACTORS.
FORGED STEEL STRIP TO BE SUPPLIED
COMPLETE WITH HEMISpherical NUTS &
SPLIT PIN TO BE SUPPLIED BY CONTRACTOR.
RUDDER FRAME TO BE SOLDERED FOR PINTLES.
STOCK & FRAME TO BE SOLDERED TOGETHER
AT CONTRACTOR'S WORKS TO ENSURE
ALIGNMENT BETWEEN UPPER STOCK & PINTLES.
SPACE BETWEEN PLATES TO BE LEFT EMPTY
BUT INSIDE TO BE COATED WITH BITUMINOUS
COMPOSITION.

THE FOLLOWING PARTS TINTED RED TO BE
SUPPLIED:

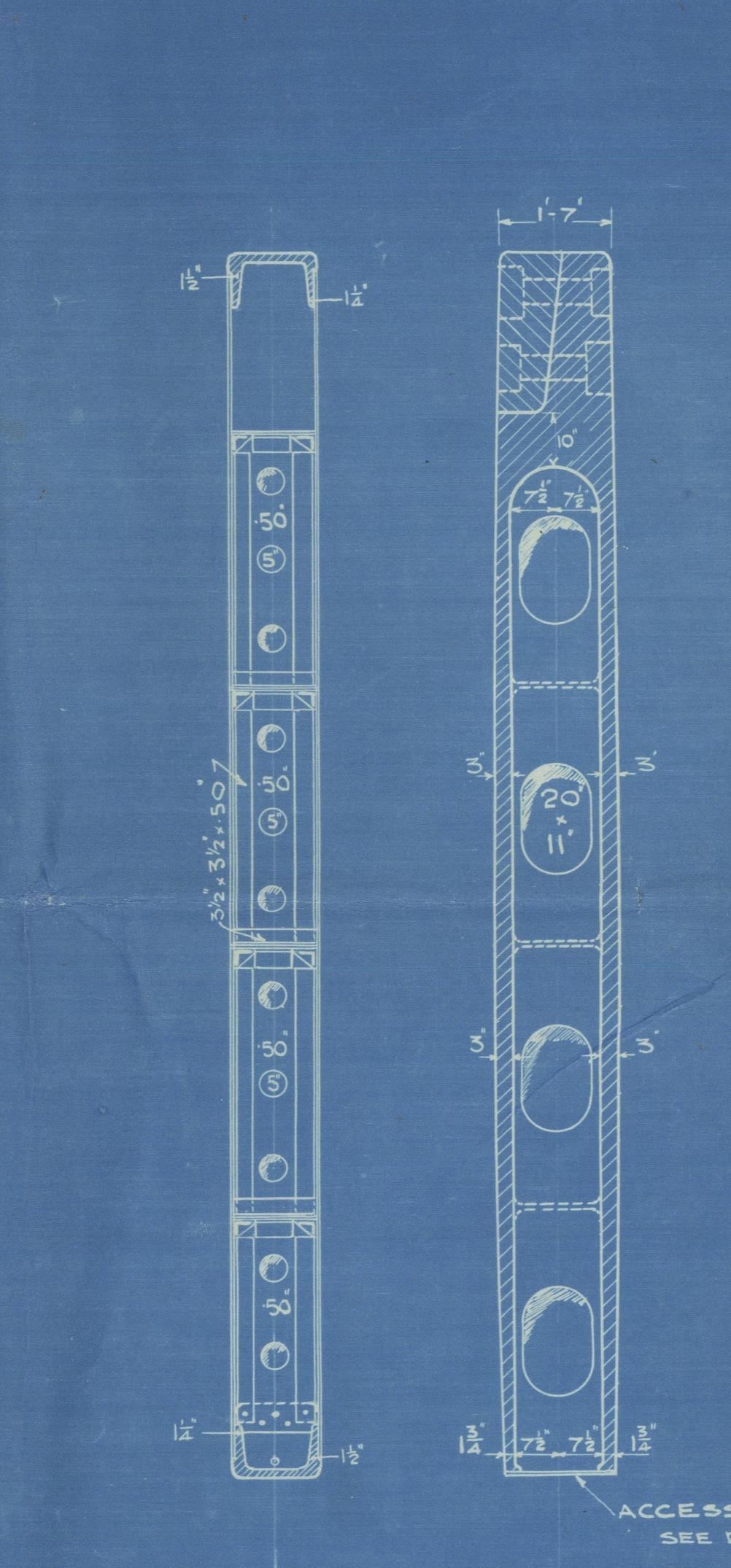
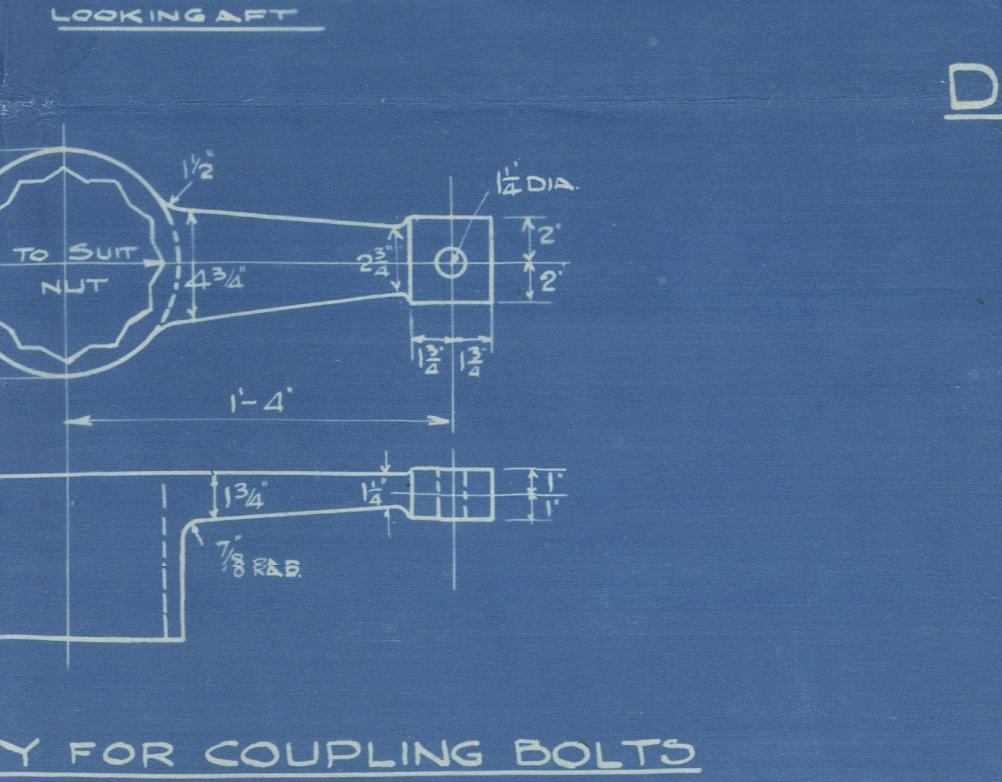
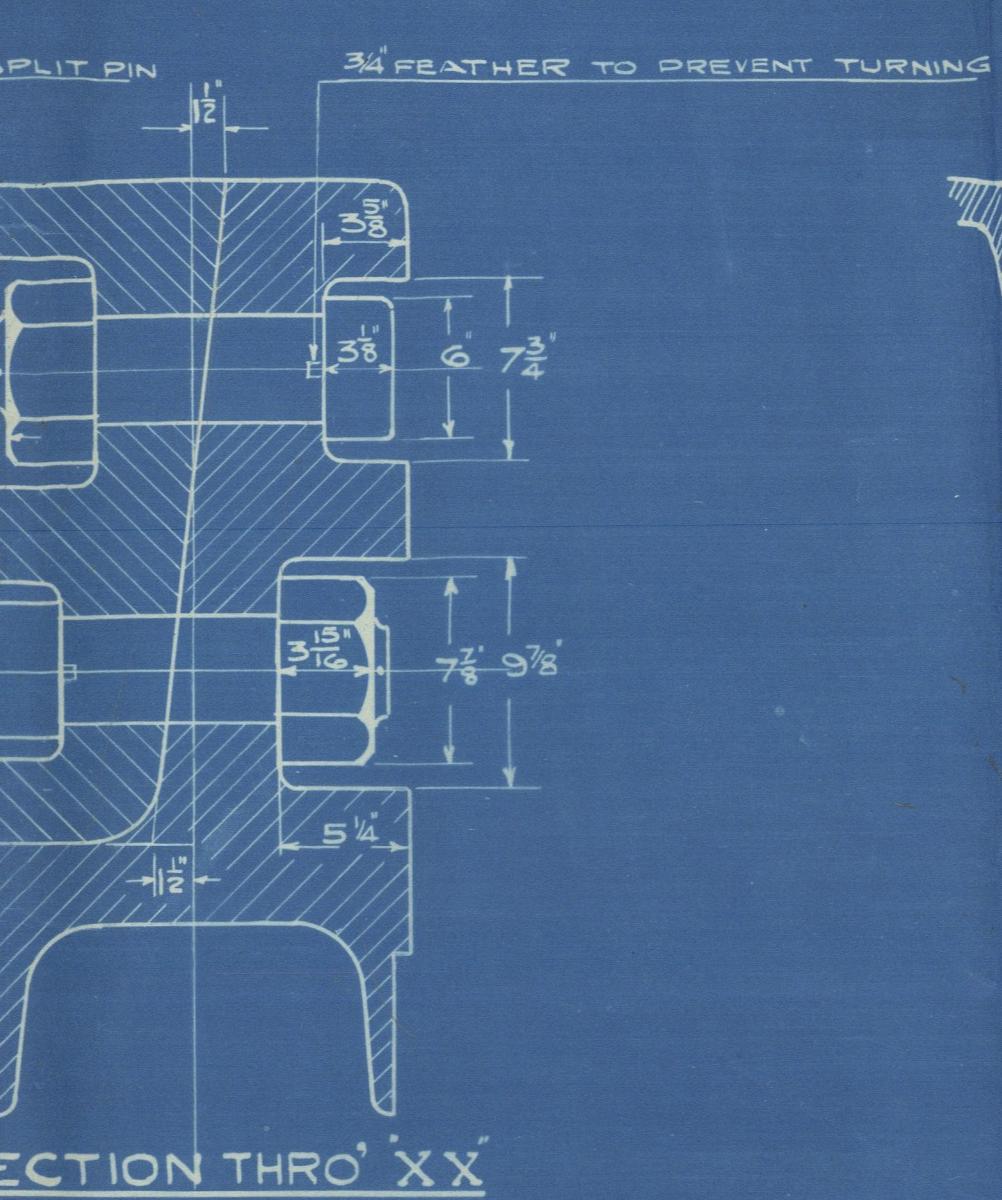
BALANCING SURFACES OF COUPLINGS,
RUDDER STOCK & BRASS LINERS.

TOP & BOTTOM OF ARMS IN WAY OF PINTLES

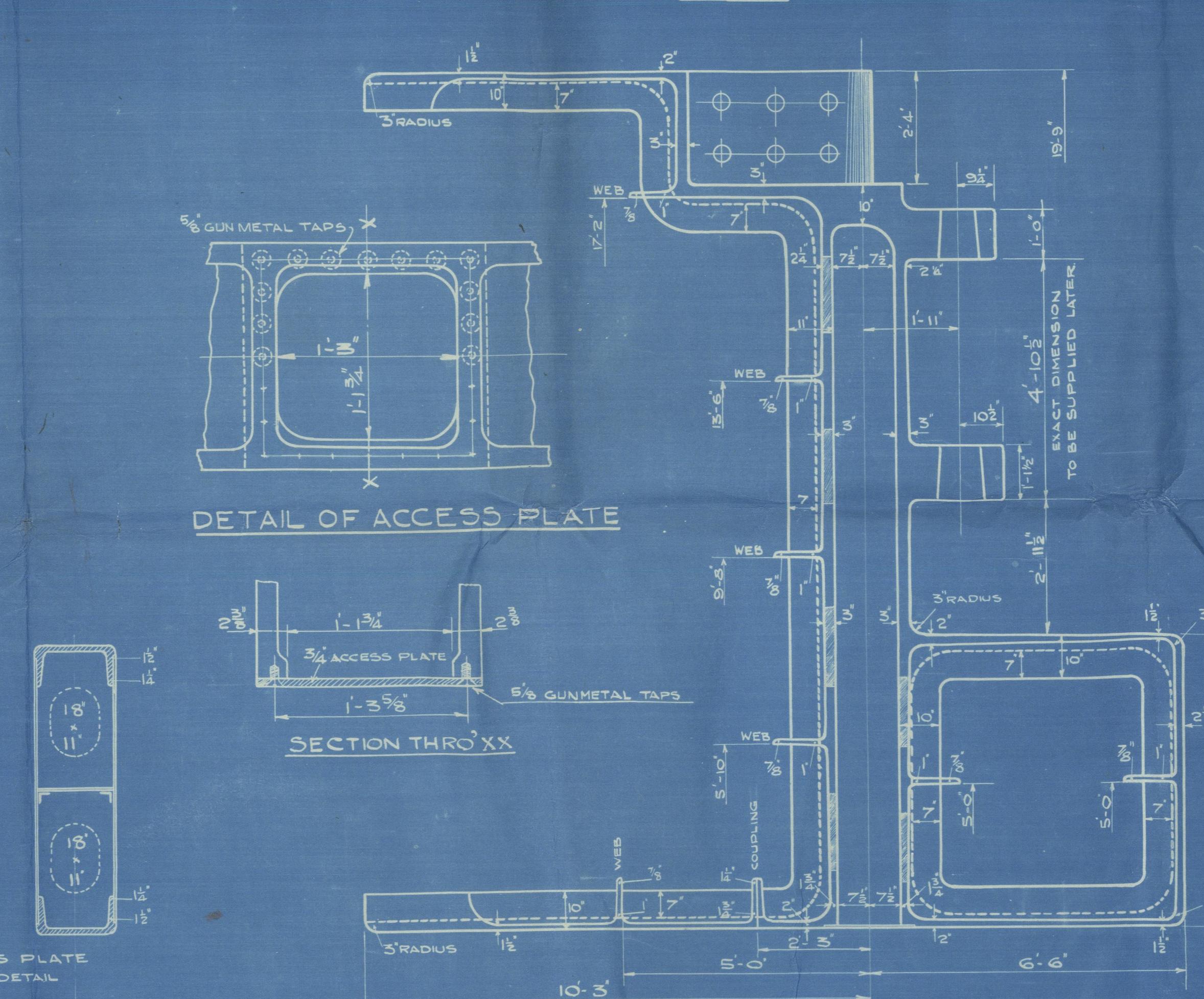
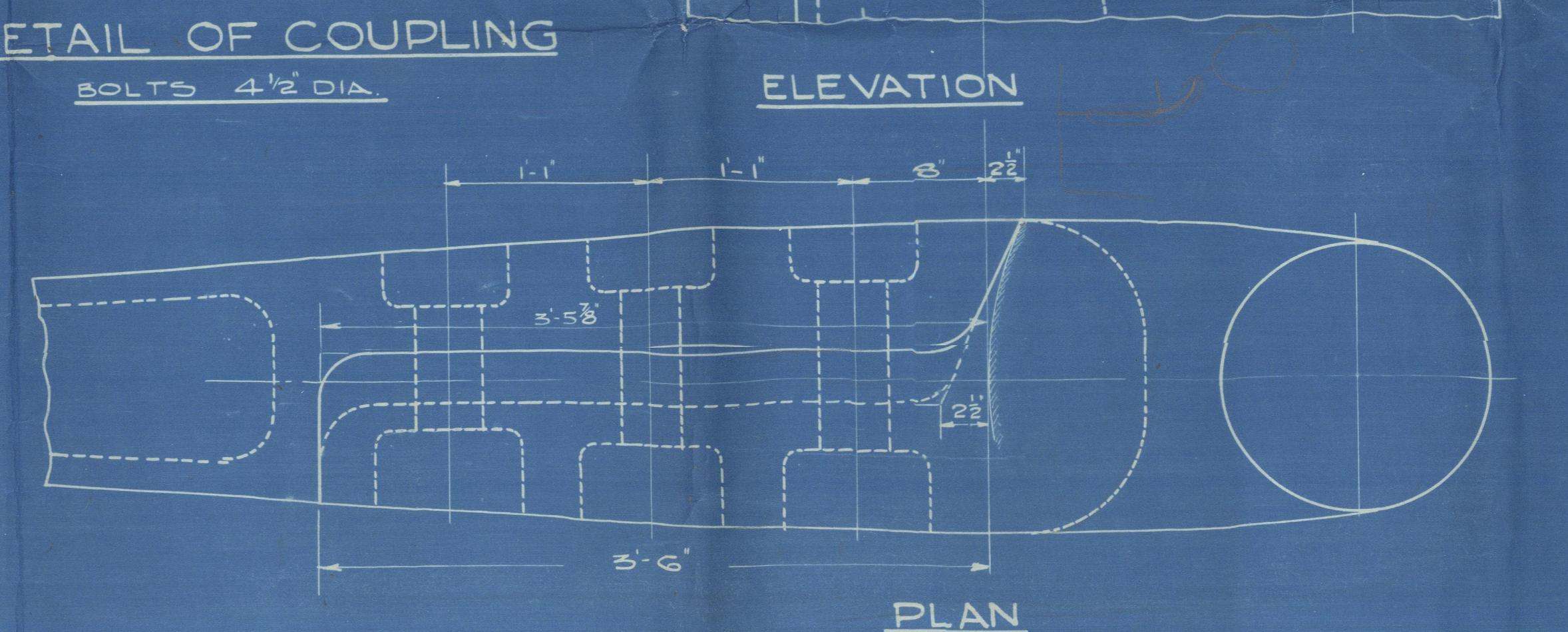
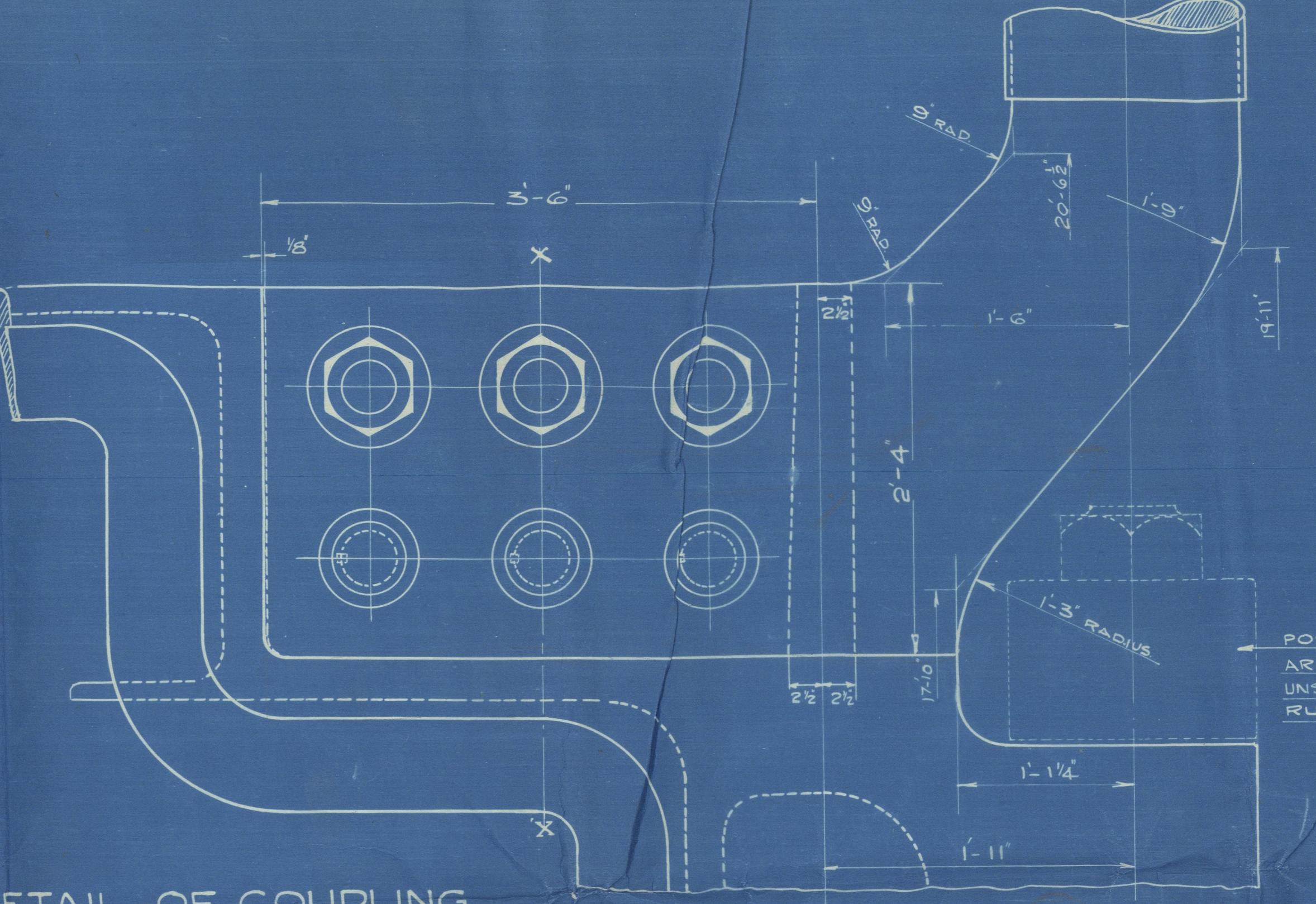
RECESSSES & FACES OF COUPLING IN WAY OF BOLTS

1/2" BRONZE BEARING RINGS, PINTLES

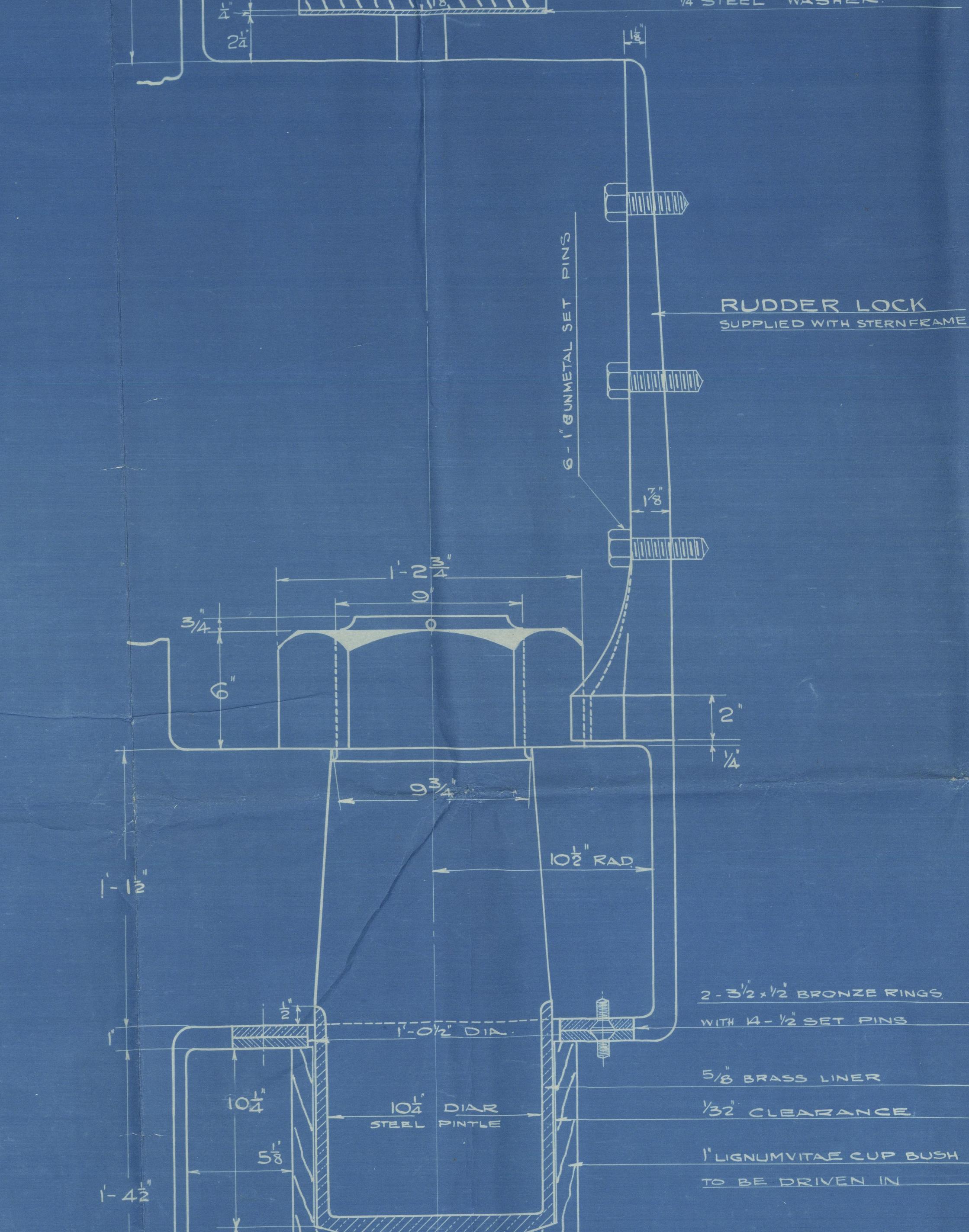
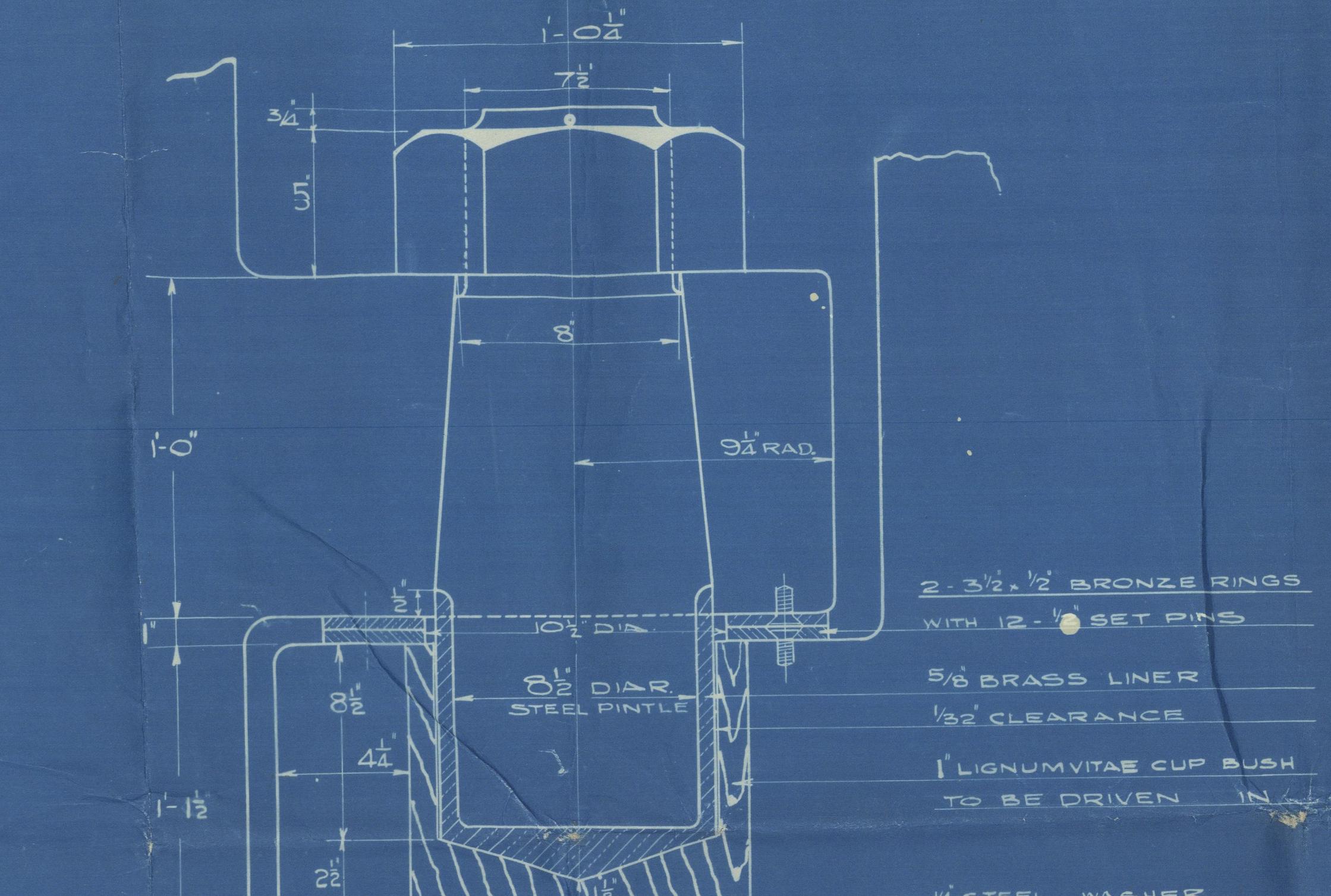
SEE ALSO KEY PLAN & PLAN
OF FULL SIZE SECTIONS



SECTION AT AA
SECTION AT BB
SECTION AT CC



SECTION THRO' CASTING



SECTION THRO' CASTING

57434
11/12/30

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